

## ANNUAL AIR MONITORING NETWORK PLAN CHECKLIST

Blue = fields that would be filled in during ANP review

ANP requirement	Citation within 40 CFR 58	Was the info submitted? If yes, page #s	Action if info is missing or incorrect	Does it meet the req?	Action if req. is not met (assumes correct info submitted)	Notes (for now on req. but ultimately for review notes)	Informs network adeq?	Critical for ANP app? <sup>1</sup>
July 1 <sup>st</sup> due date	58.10 (a)(1)		Request plan be submitted ASAP.		ANP approval can happen within 120 days of when delinquent plan is received	shall submit	N	N
Statement of purpose for each monitor	58.10 (a)(1)		Add/correct in following year's plan	Yes if correct info was submitted	No impact on current year's approval	Shall include	N	N
30-day public comment / inspection period <sup>2</sup>	58.10 (a)(1), 58.10 (a)(2)		Put out for comment and resubmit		EPA provide comment period	Shall/must provide	N	Y
List of modifications to SLAMS network	58.10 (a)(2)		Add/correct in following year's plan and withhold	Yes if correct info was submitted, (assumes we are not	N/A – req. met if correct info submitted	Subject to approval by RA	N	Y

**Comment [m1]:** Create cheat-sheet for requirement plus non-blue columns

<sup>1</sup> Identify critical criteria for approval. All else is WOE.

Critical is based on:

- 40 CFR 58.10 says “must include” or “shall provide”
- 40 CFR 58, App A – pick the critical ones and all else WOE
- 40 CFR 58, App C – ID as critical if requirement is “must”
- 40 CFR 58, App D – ID as critical if requirement is “must”
- 40 CFR 58, App E – none are critical since these need to be followed “to the extent possible”

<sup>2</sup> Comment period required by either EPA or S/L/T agency if modifications are proposed to the SLAMS network. Otherwise an inspection period is required by the S/L/T agency.

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			approval of that portion	approving the changes in ANP)				
NCore plan submitted to Admin. by 7/1/2009	58.10 (a)(3)		Ask for plan ASAP	N/A – HQ app.	N/A – HQ app.	Shall HQ app.	N	N
NCore site operational by 1/1/2011	58.10 (a)(3)		Add/correct in following year's plan and withhold approval of that portion		Withhold approval of that portion	Plan shall provide for ... HQ app.	N	Y
Pb plan for ≥1.0 tpy sources by 7/1/2009	58.10 (a)(4)		Ask for (correct) plan ASAP and withhold approval of that portion		If the submitted plan does not meet the requirements: withhold approval of that portion	Shall	N	Y
Pb site for ≥1.0 tpy sources operational by 1/1/2010	58.10 (a)(4)		Add/correct in following year's plan and withhold approval of that portion		Withhold approval of that portion	Plan shall provide for ...	Y	Y
Pb plan for 0.5-1.0 tpy by 7/1/2011	58.10 (a)(4)		Ask for plan ASAP		If the submitted plan does not meet the requirements: withhold approval of that portion	Shall	N	Y
Pb site for 0.5-1.0 tpy sources operational by	58.10 (a)(4)		Add/correct in following		Withhold approval of that portion	Plan shall provide for ...	Y	Y

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12/27/2011			year's plan and withhold approval of that portion					
NO2 plan for area-wide and RA40 sites by 7/1/2012	58.10 (a)(5)		Ask for plan ASAP		2012: Withhold approval of that portion since HQ app.	Shall HQ app.	N	N
NO2 area-wide and RA40 sites operational by 1/1/2013	58.10 (a)(5)		Add/correct in following year's plan and withhold approval of that portion		Withhold approval of that portion	Plan shall provide for ...	Y	Y
NO2 plan for near-road sites by ?	58.10 (a)(5)		Ask for plan ASAP		2012: Withhold approval of that portion since HQ app.	Shall HQ app.	N	N
NO2 near-road sites operational by ?	58.10 (a)(5)		Add/correct in following year's plan and withhold approval of that portion		Withhold approval of that portion ?	Plan shall provide for ...	Y	Y
SO2 plan for PWEI sites by 2011	58.10 (a)(6)		Ask for plan ASAP		If the submitted plan does not meet the requirements: withhold approval of that portion	Shall	N	Y
SO2 sites operational by 1/1/2013	58.10 (a)(6) and 58.13(d)		Add/correct in following year's plan		Withhold approval of that portion	Plan shall provide for...	Y	Y

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			and withhold approval of that portion					
CO plan for near-road sites by 2014	58.10 (a)(7)		Ask for plan ASAP		If the submitted plan does not meet the requirements: withhold approval of that portion	Shall	N	Y
CO sites operational by 1/1/2016	58.10 (a)(?)		Add/correct in following year's plan and withhold approval of that portion		Withhold approval of that portion	Plan shall provide for...	Y	Y
AQS site identification number for each site	58.10 (b)(1)		Add/correct in following year's plan and withhold approval of that portion	Yes if correct info was submitted	N/A – req. met if correct info submitted	Must contain following information	N	Y
Location of each site: street address and geographic coordinates	58.10 (b)(2)		Add/correct in following year's plan and withhold approval of that portion	Yes if correct info was submitted	N/A – req. met if correct info submitted	Must contain following information	N	Y
Sampling and analysis method(s) for each measured parameter	58.10 (b)(3)		Add/correct in following year's plan		N/A – req. met if correct info submitted	Must contain following information	N	Y

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**Comment [g2]:** Should the 58.10 stuff be combined with the App. D 1.1 stuff? (Like, all the stuff they might have in the individual site tables could be grouped together in this checklist?)

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			and withhold approval of that portion					
Operating schedule for each monitor	58.10 (b)(4)		Add/correct in following year's plan and withhold approval of that portion		If operating schedule does not meet req: withhold approval of that portion (can be monitor specific)	Must contain following information	Y	Y
Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal	58.10 (b)(5)		Add/correct in following year's plan and withhold approval of that portion	Yes if correct info was submitted, (assumes we are not approving the changes in ANP)	N/A – req. met if correct info submitted	Must contain following information	N	Y
Monitoring objectives <sup>3</sup> for each monitor as defined in Appendix D	58.10(b)(6); App. D		Add/correct in following year's plan and withhold approval of that portion	Yes if correct info was submitted	N/A – req. met if correct info submitted	Must contain following information	N	Y
Scale of representativeness for each monitor as defined in Appendix D			Add/correct in following year's plan and		N/A – req. met if correct info submitted	Must contain following information	Y	Y

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<sup>3</sup> Site type is considered later.

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			withhold approval of that portion					
Identification of sites suitable and sites not suitable for comparison to the annual PM2.5 NAAQS as described in Part 58.30	58.10 (b)(7)		Add/correct in following year's plan and withhold approval of that portion		N/A – req. met if correct info submitted	Must contain following information	Y	Y
MSA, CBSA, CSA or other area represented by the monitor	58.10 (b)(8)		Add/correct in following year's plan and withhold approval of that portion	Yes if correct info was submitted	N/A – req. met if correct info submitted	Must contain following information	N	Y
The designation of any Pb monitors as either source-oriented or non-source-oriented	58.10 (b)(9)		Add/correct in following year's plan and withhold approval of that portion	Yes if correct info was submitted	N/A – req. met if correct info submitted	Must contain following information	Y	Y
Any source-oriented Pb site for which a waiver has been granted by EPA RA	58.10 (b)(10)		Add/correct in following year's plan and withhold approval of that portion	Yes if correct info was submitted	N/A – req. met if correct info submitted	Must contain following information	Y	Y
Any Pb monitor for which a waiver has	58.10 (b)(11)		Add/correct in following	Yes if correct info was	N/A – req. met if correct info submitted	Must contain following	Y	Y

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been requested or granted by EPA RA for us of Pb-PM10 in lieu of Pb-TSP			year's plan and withhold approval of that portion	submitted		information		
Identification of required NO2 monitors as either near-road or area-wide	58.10 (b)(12)		Add/correct in following year's plan and withhold approval of that portion		Withhold approval of that portion? (HQ)	Must contain following information	Y	Y
Document how states and local agencies provide for the review of changes to a PM2.5 monitoring network that impact the location of a violating PM2.5 monitor. <sup>4</sup>	58.10 (c)			Yes if correct info was submitted		must		
Plan to modify the network that complies with findings of the 5-year network assessment (58.10 (e))	58.14 (a)					Shall develop and implement. Final plan subject to approval by RA.		
Data submitted to AQS	58.16							
Precision/Accuracy reports submitted to AQS	App. A					Must => WOE		

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<sup>4</sup> The affected state or local agency must document the process for obtaining public comment and include any comments received through the public notification process within their submitted plan.

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Annual data certification submitted	App. A					Must => WOE		
Frequency of flow rate verification for manual PM samplers audit	App A, 3.3.2					Must => WOE		
Frequency of flow rate verification for automated PM analyzers audit	App A, 3.2.3					Must => WOE		
Frequency of one-point flow rate verification for Pb samplers audit	App A, 3.3.4.1					Must => WOE		
Frequency of one-point QC check (gaseous)	App. A, 3.2.1					Must => WOE		
Date of last Annual Performance Evaluation (gaseous)	App. A, 3.2.2					Must => WOE		
Dates of last two semi-annual flow rate audits for PM monitors	App A 3.2.4 and 3.3.3					Must => WOE		
Dates of last two semi-annual flow rate audits for Pb monitors	App A 3.3.4.1					Must => WOE		
PM2.5 co-location						Must => WOE		
PM10 co-location						Must => WOE		
Pb co-location	App. A 3.3.4.3					Must => WOE		
PM10-2.5 co-location	App. A 3.3.6							
PEP audits?	App. A (Pb – 3.3.4.4)			Yes if correct info was submitted		Take out since this is EPA program?		

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NPAP audit	App. A			Yes if correct info was submitted		Take out since this is EPA program?		
Instrument/monitoring method code for each monitor: is it reported properly?	App. C							
Instrument/monitoring method code for each monitor: FRM/FEM/ARM used for all required monitors	App. C					must		
PM2.5 continuous instruments comparable to NAAQS?	Proposed rule and memo							
Start date for each monitor	App. C			Yes if correct info was submitted		Must		
Instrument monitor type for each monitor								
Monitoring objective for each instrument	App. D 1.1			Yes if correct info was submitted		Must		
Site type for each instrument	App. D 1.1.1					Must		
Instrument parameter code for each instrument								
Instrument parameter occurrence code for each instrument				Yes if correct info was submitted				

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Sampling season	App. D					Must		
Sampling schedule	App. D					Must		
Minimum monitoring requirements met for O3	App. D					Must		
Minimum monitoring requirements met for NO2	App. D					Must		
Minimum monitoring requirements met for SO2	App. D section 4.4					Must		
Reporting/collecting max 5 minute average per hour for SO2	58.12(g), 58.16(g)							
Minimum monitoring requirements met for CO	App. D					Must		
Minimum monitoring requirements met for Pb, including for Pb at NCore	App. D section 4.5; 58.13(a)					Must		
Sampling frequency requirements met for Pb	58.12(b)					Must collect at 1:6 unless waiver		
Minimum monitoring requirements met for PM2.5	App. D					Must		
Sampling frequency requirements met for PM25	58.12(d)							
Minimum monitoring requirements met for PM10	App. D					Must		

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Sampling frequency requirements met for PM10	58.12(e)							
Minimum monitoring requirements met for PM10-2.5								
Sampling frequency requirements met for PM10-2.5	58.12(f)							
Distance of site from nearest road	App. E					followed to the maximum extent possible		
Traffic count of nearest road	App. E					followed to the maximum extent possible		
Groundcover	App. E					followed to the maximum extent possible		
Probe height	App. E					followed to the maximum extent possible		
Distance from supporting structure	App. E					followed to the maximum extent possible		
Distance from obstructions on roof	App. E					followed to the maximum extent possible		
Distance from obstructions not on roof	App. E					followed to the maximum extent possible		
Distance from trees	App. E					followed to the maximum extent		

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						possible		
Distance to furnace or incinerator flue	App. E					followed to the maximum extent possible		
Distance between collocated monitors	App. E					followed to the maximum extent possible		
Unrestricted airflow	App. E					followed to the maximum extent possible		
Probe material (if applicable)	App. E					followed to the maximum extent possible		
Residence time (if applicable)	App. E					followed to the maximum extent possible		

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Use a weight of evidence approach.

**Based on the information that is in the Annual Network Plan,** [EPA has determined that the Annual Network Plan meets the requirements listed in 40 CFR 58.10, except for ...]

**Comment [m3]:** Use R1 language for this.

Identify action if deficient (request for next-year's plan, disapprove portion, address issue and resubmit, etc.)

Identify which have to be met for network adequacy vs. ANP approval (if there is a difference) or just which inform network adequacy.